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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/671,567	09/27/2000	Ming-Tsun Hsieh	JCLA5635	4641	
7590 . 05/18/2005			EXAM	EXAMINER	
J C Patents INC 4 Venture		•	VILLECCO, JOHN M		
Suite 250			ART UNIT	PAPER NUMBER	
Irvine, CA 92	2618		2612	2612	
			DATE MAILED: 05/18/2003	DATE MAILED: 05/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/671,567	HSIEH, MING-TSUN			
	Office Action Summary	Examiner	Art Unit			
		John M. Villecco	2612			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reploperiod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by stature reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be tile of the statutory minimum of thirty (30) danged will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication IED (35 U.S.C. § 133).	1.		
Status						
1)⊠	Responsive to communication(s) filed on 22 i	November 2 <u>004</u> .				
		is action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5)⊠ 6)⊠ 7)□	Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) 1-9 is/are allowed. Claim(s) 10-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.				
Applicat	tion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>27 September 2000</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification.	s/are: a)⊠ accepted or b)□ obje e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d	i).		
Priority :	under 35 U.S.C. § 119					
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified Copies of the priority document Copies of the Copies	nts have been received. nts have been received in Applicationity documents have been received in Rule 17.2(a)).	tion No ved in this National Stage			
Attachmen	ntfe \	•				
_	ce of References Cited (PTO-892)	4) Interview Summary	v (PTO-413)			
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date	5) ☐ Notice of Informal (6) ☐ Other:	Patent Application (PTO-152)			

Application/Control Number: 09/671,567 Page 2

Art Unit: 2612

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed November 22, 2004 have been fully considered but they are not persuasive.
- 2. Regarding claim 10, applicant argues that Ayukawa fails to teach that the data stored in the different address are consecutive. Applicant argues that instead, Ayukawa teaches that the addresses of the data items are consecutive, not the actual data items. However, the examiner fails to see the distinction between the data items and the address data items when applied in a manner such that Ayukawa is used to show that consecutive data items can be accessed faster if stored sequentially. The fact that Ayakawa teaches that the data item addresses are stored sequentially is irrelevant, since Ayakawa is used as a general teaching of storing items sequentially so they can be accessed much faster then if they are scattered around the memory. One of ordinary skill in the art would have recognized that in order to quickly access the pixel data stored in the memory of Younse it would have been obvious to store the data sequentially so that it can be accessed faster.
- 3. Therefore, the rejection of claims 10-12 from the previous office action will be repeated.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Art Unit: 2612

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

- 5. <u>Claims 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Younse et al. (U.S. Patent No. 4,805,023) in view of Ayukawa et al. (U.S. Patent No. 6,404,694).</u>
- Regarding *claim 10*, Younse discloses a CCD imager defect compensator which includes a PROM (11) for storing a plurality of defective pixel addresses and a comparator (13) for comparing the defective pixel address with the current pixel address from the pixel address counter (15). When the defective pixel address and the pixel address are the same an inhibit signal is output. This is interpreted to be a defective pixel flag since it is designating that the current pixel is a defective pixel. See column 2, line 43 to column 3, line 30.

However, Younse fails to specifically disclose that the defective pixel addresses are arranged in an ascending order in the memory element. Ayukawa, on the other hand, discloses that it is well known in the art to output data in ascending order because it is a fast way to output the data. See column 15, line 35 to column 16, line 31. Ayukawa discloses that processors generally read data items consecutively, from consecutive addresses. When used in conjunction with Younse it would have been obvious to access the memory sequentially, thus storing the pixel addresses in ascending order, in order to facilitate the speedy readout of the pixel data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store the pixel addresses of Younse in ascending order so that they may be accessed sequentially in a fast manner, thus enabling less processing in order to output the required image data.

Application/Control Number: 09/671,567 Page 4

Art Unit: 2612

7. As for claim 12, Younse discloses the use of a line pointer which supplies the address for

the PROM (33). The line pointer is interpreted to be the index. See column 3, lines 36-38.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Younse et al.

(U.S. Patent No. 4,805,023) in view of Ayukawa et al. (U.S. Patent No. 6,404,694) and

further in view of Heller et al. (U.S. Patent No. 6,396,539).

9. Regarding *claim 11*, as mentioned above in the discussion of claim 10, the combination

of Younse and Ayukawa discloses all of the limitations of the parent claim. However, neither

Younse nor Ayukawa specifically discloses that the memory element is a fuse array. Heller, on

the other hand, discloses that it is well known in the art to use a fuse array to store defective pixel

addresses. More specifically, Heller discloses a fuse memory (14) for storing the defective pixel

locations of the imager (12). It is well known in the art that a fuse memory is a type of PROM.

The use of a fuse memory is a more specific memory arrangement for use in Younse and one of

ordinary skill in the art would have taken into consideration the different types of memories for

storing the defective pixel addresses. Therefore, it would have been obvious to one of ordinary

skill in the art at the time the invention was made to use a fuse memory for the PROM memory

of Younse.

Allowable Subject Matter

10. Claims 1-9 are allowed.

11. The following is an examiner's statement of reasons for allowance:

Art Unit: 2612

Regarding claims 1 and 5, the primary reason for allowance is that the prior art fails to teach or reasonably suggest comparing the defective pixel address with an empty signature if the sensor address is not equal to the defective pixel address and then increasing the index value by one unit if the defective pixel address is equal to the empty signature.

12. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. Villecco whose telephone number is (571) 272-7318. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (571) 272-7308. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/671,567

Art Unit: 2612

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John M. Villecco

May 2, 2005

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